

Date: Sun, 5 Jun 94 04:30:24 PDT
From: Ham-Digital Mailing List and Newsgroup <ham-digital@ucsd.edu>
Errors-To: Ham-Digital-Errors@UCSD.Edu
Reply-To: Ham-Digital@UCSD.Edu
Precedence: Bulk
Subject: Ham-Digital Digest V94 #181
To: Ham-Digital

Ham-Digital Digest Sun, 5 Jun 94 Volume 94 : Issue 181

Today's Topics:

9600 baud observations...
AEA DSP2232 Mailing List
An open note to Gary Coffman, KE4ZV (2 msgs)
DXing Freqs for VHF FM Packet
Help w/WEFAX & Pk232
MSYS117
PacComm DB9 BayCom Modem
Packet equipment?/Mail Order?
Source for TNC-2 eprom
UK TCP/IP meet - reminder!
Vester SSTV board

Send Replies or notes for publication to: <Ham-Digital@UCSD.Edu>
Send subscription requests to: <Ham-Digital-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Digital Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-digital".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sun, 5 Jun 1994 07:04:34 GMT
From: netcomsv!netcom.com!wb6w@decwrl.dec.com
Subject: 9600 baud observations...
To: ham-digital@ucsd.edu

Jeffrey Austen (jra1854@tntech.edu) wrote:
: In Article <79731@uugate.wa7slg.ampr.org>, ka7oei@uugate.wa7slg.ampr.ORG wrote:
: >I'd like some comment on the TAPR and (apparently) MFJ firmware KISS modes.
: >With both, I've observed that after some time (5-10 minutes, maybe) the TNC
: >seems to reset, losing current timing parameters like TXDELAY, SLOTTIME,
: >etc.

: I have a MFJ 1270B and cured this problem by getting a new TNC2 EPROM from TAPR.

: Jeff, k9ja

I had a similar problem with the MFJ firmware. According to MFJ, there is an (apparently undocumented) command that is *SUPPOSED* to disable the reset timer. The command would be "param 250" if nos would accept it (my copy of jnos won't). The command can still be entered from a pc/clone via standard commo programs and the alt-keypad trick. The bad news is that this never worked for me. I'd be interested in hearing from anyone for whom this "param 250" (kissdog off) HAS worked! I finally just downloaded the tapr kiss firmware from ucsd.edu and got a friend to burn it into a prom for me. That's how I solved this problem. - 73 de Glenn wb6w@netcom.com

Date: 5 Jun 1994 00:01:03 +0200
From: Germany.EU.net!Aachen.Germany.EU.net!rmi.de!Aachen.Germany.EU.net!rmi.de!
not-for-mail@uunet.uu.net
Subject: AEA DSP2232 Mailing List
To: ham-digital@ucsd.edu

=====
This is the Mailserver at EUnet EUregio POP Aachen
=====

If you are interested in exchanging information on the

AEA DSP 2232 - Digital Signal Processing Multi-Mode Data Controller

you are invited to join our Mailing list (started on May 12, 1994).
Please subscribe by sending a Mail to

dsp2232-request@rmi.de [or dsp2232-request@Aachen.Germany.EU.net]
with the subject: "subscribe" .

If you would like to share your experiences of knowledge on the
unit, write your contributions to

dsp2232@rmi.de [or dsp2232@Aachen.Germany.EU.net].

=====
Automatic weekly mailing
=====

Date: 4 Jun 94 18:33:27 -0600
From: caen!saimiri.primate.wisc.edu!news.doit.wisc.edu!uwec.edu!hemp!
whitemp@tcgould.tn.cornell.edu
Subject: An open note to Gary Coffman, KE4ZV
To: ham-digital@ucsd.edu

Gary Coffman (gary@ke4zv.atl.ga.us) wrote:

: Talking KISS is not the answer, there is already a packet driver that
: can do that.

Which one? I've been looking - give me an FTP site.

: What you have to have is the entire AX25 set embedded in
: the driver so that it can enclose the IP packets in an AX25 envelope
: and then enclose *that* in a KISS envelope for delivery to the KISS
: TNC. An AX25 driver is not something that can easily be made a TSR.
That's fine. All I want to need to do, is run a driver, much like
slip8250.com, that will turn the TNC into an 'ethernet' card. Heck,
they've done it with just a serial card, it seems like a TNC should
be a whole lot easier.

: There *is* a kernel mode AX25 driver for Linux, and one that runs in user
: space for Sys V Unix. IMHO, if you want kernel level support features, you
: need to run a proper operating system that's designed to support such
: features. Linux is one that will run on a PC.

Got it, run it, love it. BUT: MOST PPL I KNOW OF (for some reason or
another) WON'T RUN LINUX! That segment would be best served with a
driver.

: DOS is a glorified program loader,
You're being generous!

: no amount of kludges and bandaids (such as Windoze) can fix that.
Windoze is still a kludge. Unfortunately, it's a popular kludge.

If you could point me in the direction of a driver that will allow my
TNC to run tcp/ip under dos, and speak to all of the nifty applications
(such as NCSA Telnet, Popmail, etc) that would be very good!

--

Mike White whitemp@cnsvox.uwec.edu
N9UXC Tech+ and climbing

Date: Sat, 4 Jun 1994 22:22:35 GMT
From: nwnexus!a2i!davidj@uunet.uu.net

Subject: An open note to Gary Coffman, KE4ZV
To: ham-digital@ucsd.edu

Gary's letter isn't here, but Doug's open letter is a fine start. And we have all read replies about one technical angle or another being the seed of our discontent. But have we ever thought about applications for packet radio? Excuse me, but what is this thing for?

We get bored pretty quickly with keyboard-to-keyboard communications. A regular BBS is pretty well out of the question, even at 9600 baud the throughput is nearly unusable. There are other things we can do, however, and I wonder why there hasn't been more development outside of the strictly technical. For instance:

ARESPACK from WN6I tracks who/where/what during a disaster. APRS plots locations of stations, DF headings, station status, etc on a map from information transmitted on packet. And the DX cluster is a perfect example of how we can use this mode to make things nicer.

Pedro Colla wrote a long article, pointing out what we have here: it is a low bandwidth, anarchic, highly resilient network that will work, eventually. Practical throughput, once there are more than two stations involved, is a few tens or hundreds of baud. It is a thin network. Why don't we give up on thinking of it as a ham Ethernet and start working on more applications where this sort of information pipe will do some good?

73
David WA6NMF

--
David Josephson / Josephson Engineering / San Jose CA / david@josephson.com

Date: 5 Jun 1994 04:50:19 GMT
From: nwnexus!halcyon!raoul@uunet.uu.net
Subject: DXing Freqs for VHF FM Packet
To: ham-digital@ucsd.edu

I'm interested in doing some DX work on VHF FM Packet. I know enough not to use the network freqs but what ones should I use?

I'm in Washington State- Western side. I have 45 watts and a decent site- pretty high on a hill. I figured I would pick one of the freqs that guys do this sort of thing and set the beacon on and see what happens.

Is this proper procedure and what freqs should I try?

Jeff
KB7AIL

Date: 5 Jun 94 02:11:10 GMT
From: news-mail-gateway@ucsd.edu
Subject: Help w/WEFAX & Pk232
To: ham-digital@ucsd.edu

I just received a new AEA PK232MBX TNC, and tried using JVFAX to decode WEFAX signals, but all I got was a white blanket on my screen.
I speaking with a friend of mine more familiar with JVFAX, he said he believes the program will only work with the special circuits recommended for specific reception and decoding of WEFAX.

Do any FTP-able programs exist for reception of WEFAX via a TNC, or do I need to spend a few more dollars and buy AEA's wefax s/w?

Thanks much for any help anyone can offer.

73,
Scott

=====
| Scott Ehrlich Amateur Radio: wy1z AMPRnet: wy1z@wa1phy.ampr.org |
Internet: wy1z@neu.edu BITnet: wy1z@NUHUB AX.25: wy1z@wa1phy.ma.usa.na
Maintainer of the Boston Amateur Radio Club hamradio FTP area on
oak.oakland.edu - /pub/hamradio

=====

Date: Sun, 5 Jun 1994 02:22:24 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!usenet.ins.cwru.edu!
news.csuohio.edu!sww@network.ucsd.edu
Subject: MSYS117
To: ham-digital@ucsd.edu

Jeremy Remer (jrem@ub.d.umn.edu) wrote:
: Where do I find MSYS117 on the network?
: So far, MSYS116 is what I have found so far.

FTP to 137.148.21.6 ... That is the author (Mike, WA8BXN's) site.

73,

Steve

N08M@N08M.#NEOH.OH.USA.NA
ag807@cleveland.freenet.edu

Date: 4 Jun 1994 17:49:02 -0400
From: news2.sprintlink.net!news.sprintlink.net!deathstar.cris.com!
starcore.cris.com!not-for-mail@uunet.uu.net
Subject: PacComm DB9 BayCom Modem
To: ham-digital@ucsd.edu

In article <BAT.94Jun3070443@gdstech.GRUMMAN.COM>, Pat Masterson wrote:

> PacComm sells a neat Baycom modem in a DB9, as well as a DB25. It's
>almost invisible. And, it actually works!. I travel with it, a laptop,
>and an HT. Perfect for high-hotel-room packet playing. -pat

Neat, isn't it...!!! I have the same setup and it works great... For
\$65.00, the PacComm BayCom modem and the latest version of BayCom is the
best kept secret in the ham world...

Marv...

+++ Marv Uphaus -- Muphaus@cris.com -- CompuServe: 72122,1253 ---+
+++ U.S. Mail: 4031 Airport Blvd. #49 -- Mobile, AL 36608 USA ---+
+++ Packet Radio: K4BVG @W4IAX.#MOBAL.AL.USA.NA Ph: 205 343-9256 ---+

Date: 5 Jun 94 04:47:00 EDT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!darwin.sura.net!wvnmms.wvnet.edu!
un107332@network.ucsd.edu
Subject: Packet equipment?/Mail Order?
To: ham-digital@ucsd.edu

Hi,

I am interested in purchasing equipment that will let me do
packet. If I have a terminal, I can just use a TNC? And if I
take an old 8088, I can use a BayCom modem plus software on the
computer to do it? Please e-mail me if this is incorrect.

I have seen a lot of references to the Kantronics TNC, and
was wondering how much they cost .. also, on the same subject, what
are some mail-order companies that deal in radio equipment and packet
stuff specifically?

Thanks for any info ..

Laurent

--

Laurent Delfosse C.S. at WVU Do, or do not ...
UN107332@VAXA.WVNET.EDU there is no try. -Yoda

Date: Sat, 4 Jun 1994 16:45:44 GMT
From: gsm001!gsm001.mendelson.com!gsmlrn@uunet.uu.net
Subject: Source for TNC-2 eprom
To: ham-digital@ucsd.edu

Rudi van Drunen (rudi@chem.rug.nl) wrote:
: Hi all !

: I'm looking for the Z80 SOURCE of the EPROM for use in the TNC-2.
: Esp. because I want to move the addresses of the Z80 peripheral chips
: to get the code running on another board.

: Please give me a lead where I can find the source ! The images of the
: EPROM seem to be scattered all around the Internet, but I have not
: found the source.

TAPR should be able to send you a copy of the source code for the TNC-2
eprom. I don't know if there would be a charge (beyond disk production and
postage or not).

The KISS eprom for the tnc-2 both in source code and object is available
from several ftp sites and on the QRZ CD-ROM.

73

Geoff.

--

"I am number six. Others come and others go, but I am always number six."
(From the movie "Eminent Domain".)

Geoffrey S. Mendelson N3OWJ (215) 242-8712 gsm@mendelson.com

Date: 4 Jun 1994 19:04:04 +0100
From: ihnp4.ucsd.edu!swrinde!pipex!warwick!unicorn.nott.ac.uk!unicorn.nott.ac.uk!
not-for-mail@network.ucsd.edu
Subject: UK TCP/IP meet - reminder!
To: ham-digital@ucsd.edu

TCP/IP Network Meeting
R:940516/0722z @:G7GPA.GB7BAD.#23.GBR.EU [Nowhere]

;;;Emacs-fodder: -*-Text-*-

Greetings, TCP/IP-people,
After the success (even though I managed to erase the minutes) of last year's Region 4 TCP/IP meeting, it gives me pleasure to announce:

The Second U.K. TCP/IP-AMPR Network Meeting

Date: Saturday, 18th June 1994	Venue: Nottingham University
Cost: Free	Open to: Anybody
(note - date is provisional, but will only change if there's a _very_ good reason, i.e. NFD, World War III :))	

This meeting is being held as a forum to discuss new ideas in TCP/IP networking by radio, and to help develop a plan for developing the network and increasing connectivity to produce a working plan. Other possible topics for discussion include - software, networking under alternative systems (Linux!) and anything else that's of interest.

I've called this meeting 'UK' as last year's meeting covered more than merely Region 4 specific issues, and also because I think it would be a great idea for us all to get together for a talk and a few beers, to hopefully produce a little more cooperation between different parts of the country, which would be universally beneficial.

A few suggested topics for discussion:

- Domain naming conventions (and problems with name service)
- Mail delivery over the wide-area UK network
- Distribution of network news
- Addressing schemes (we need to sort this one out! ;-))
- Networking with Linux (and other Unix versions)
- Interchange of mail and news with the Internet at large
- Interfacing with the vanilla AX25 network, and development of a common carrier?
- Trends in TCP/IP networking as seen on the Internet (Gopher, WAIS, WWW, high-speed networking)
- The legal issues raised by the above (sigh..)

Anybody who wishes to add something to the agenda (the above are only suggestions), please get in touch with me (addresses at the end).

If anybody would like to attend (which I hope you will!), then also drop me a line so I can get a rough idea of numbers and work out which

room I need to book.

Please put 'TCP/IP Meet' or similiar in mail subject lines so I know where to file it. Thanks..

73

Mike G7GPA

```
+--- Mike Knell, University of Nottingham, UK - M.Knell@unicorn.nott.ac.uk ---+
|      AX25: G7GPA@GB7BAD.#23.GBR.EU -      if(2b||!2b) question=THAT;      |
|      "Pet Sounds" is the best album ever. Period. No arguing..      |
+--- GAT(!B) d--- -p+ c++++(---) l++ u+ e+/* *m+ s n+ h-- f* !g w+ t+ r- y* ---+
/EX
```

```
--
+--- Mike Knell, University of Nottingham, UK ==- M.Knell@unicorn.nott.ac.uk ---+
|      Linux - Live Free Or Die!      |      AX25: g7gpa@g7gpa.gb7bad.#23.gbr.eu      |
|      Clear the laundromat! This whirl-o-matic just had a nuclear meltdown!      |
+--- GAT(!B) d--- -p+ c++++(---) l++ u+ e+ m+/* s-/ n+ h-- f* !g w+ t+ r-- y* -+
```

Date: Sat, 4 Jun 1994 13:59:52 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!news-feed-1.peachnet.edu!news.duke.edu!eff!
news.kei.com!ddsw1!n9csa!jeff.smith@network.ucsd.edu
Subject: Vester SSTV board
To: ham-digital@ucsd.edu

Hey guys,
Can anybody make a Vester SSTV board (QST Jan. 1994) for me? I will pay
you \$\$. I am a new ham awaiting my ticket but I have no electrical
knowledge. Please help!!! Leave me a message.
Thanks and 73's, Jeff

Date: 5 Jun 1994 03:23:07 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!wupost!crcnis1.unl.edu!
news.mid.net!newsfeed.ksu.ksu.edu!moe.ksu.ksu.edu!hobbes.physics.uiowa.edu!
news.uiowa.edu!icaen!drenze@network.ucsd.
To: ham-digital@ucsd.edu

References <2sleak\$7lc@network.ucsd.edu>, <Cqtq18.KwB@world.std.com>,
<1994Jun3.153101.7475@ke4zv.atl.ga.us>du
Subject : Re: An open note to Gary Coffman, KE4ZV

gary@ke4zv.atl.ga.us (Gary Coffman) writes:

>You've almost got it. The only point on which you seem confused is

>the role and location of AX25. A TNC in KISS mode doesn't know from
>AX25. It's just a stupid modem with just enough smarts to not transmit
>if the channel is busy. The AX25 layer happens inside NOS *before*
>the KISS encapsulation driver. Let me try to illustrate with the
>OSI stack.

Then why can't we abandon the AX.25 layer entirely and just use the
KISS-mode TNC as the dumb modem it is? I can't find my FCC rulebook
right now (and I think it might be out of date anyway), but wouldn't
that count as an "unspecified digital code" which would be legal
as long as you transmitted an ID every 10 minutes or so in an acceptable
mode (CW/voice/packet ID frame...) just have your TCP/IP interface
transmit a packet ID frame every 10 minutes, and you'll be OK, I think.

73 - doug

--

Doug Renze, N0YVW * drenze@isca.uiowa.edu * N0YVW @ W0IUQ.ia.usa.na
DRenze@aol.com ** drenze@chop.isca.uiowa.edu

Date: Fri, 3 Jun 1994 04:32:38 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!torn!
uunet.ca!uunet.ca!geac!torsqnt!problem!vigard!mdf@network.ucsd.edu
To: ham-digital@ucsd.edu

References <2s3kqn\$pj6@usenet.srv.cis.pitt.edu>,
<2sfi74\$5ps@hermes.louisville.edu>, <2sh8s9\$f3l@herald.indirect.com>
Subject : Re: Motorola GPS engine purchase information

patrick@indirect.com (Patrick Berry) writes:
>Mike is right. I for one am going to buy two - one to work with my
>notebook computer and the second to attach to my 440 repeater to tx dgps
>info in sub audible encoded low speed digital data.

does the motorola "engine" actually provide the necessary pseudo-range data
as output, and can it accept pseudo-range as input (for it's solutions)?
if so, i would be interested in having a pair myself ...

>DGPS has nothing to do with "large bodies of water" as the original poster
>implied. There are installations around the Great Lakes that broadcast
>dgps data, but that is only an instance of using dgps. DGPS is implemented
>by placing a unit at a precisely known location and subtracting that
>precisely known lat and lon from the data received by the dithered gps
>unit. Those differences are then broadcast. If you use those diffs to
>correct the reading from another gps unit, you have effectively removed
>the dither on the signal. That is what I will do with my portable gps

>unit and the one at the repeater site.

not exactly. you can implement a rudimentary system along these lines, but the increase in accuracy isn't as great as you would get if you broadcast pseudo-range corrections (derived from a receiver at a known location) and this data is incorporated into the solutions that mobile receivers make.

not that you shouldn't try a simple delta-lat/lon setup for starters. however, i would recommend a packet arrangement tho. 1200bps packet equipment is cheap, easy to come by, easy to connect, and you can probably go into a store and buy all the needed goo (if you lack it) to begin experiments promptly. send the stuff in unnumbered I-frames, addressed to "DGPS" say.

hm ... this could actually be a pretty darn useful service.

>73 de Pat KN7B

--

Matthew Francey

mdf@vigard.mef.org

ve3rqx@io.org

"live before you die"

GPS(NAD27): N43o34.210' W079o34.563' +0093m

End of Ham-Digital Digest V94 #181
